

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------|------------------|---------|------------------|
| S1 | 1 | "10/518052" | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:08 |
| S2 | 2085 | (daikin).as. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:10 |
| S3 | 62 | (Tatemoto near5 Masayoshi).in. OR (Arase near5 Takuya).in. OR (Ino near5 Tadashi).in. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:11 |
| S4 | 2101 | (S2) OR (S3) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:12 |
| S5 | 46 | (S2) AND (S3) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:12 |
| S6 | 66 | (S2) AND (fluoropolymer) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:19 |
| S7 | 5 | (S2) AND (fluoropolymer) AND (sulfonic near5 acid near5 group) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:19 |
| S8 | 917 | (fluoropolymer) near5 (dispersion) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:31 |
| S9 | 4 | ((fluoropolymer) near5 (dispersion)) AND (fluoropolymer near5 acid near5 salt near5 group) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:31 |
| S10 | 574 | ((fluoropolymer) near5 (dispersion) near5 (water Or aqueous)) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:32 |
| S11 | 242 | ((fluoropolymer) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol OR tetrafluoropropanol) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 06:37 |
| S12 | 310 | ((fluoropolymer OR (fluorinat \$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol OR tetrafluoropropanol) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 07:28 |
| S13 | 310 | ((fluoropolymer OR (fluorinat \$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 07:28 |

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|-----|----|--|------------------------|----|-----|------------------|
| S14 | 26 | ((fluoropolymer OR (fluorinat\$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol) AND (((fluoropolymer) OR (fluorinat\$3 near5 polymer)) near5 (salt)) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 07:29 |
| S15 | 16 | (S2) AND ((fluoropolymer OR (fluorinat\$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 07:32 |
| S16 | 1 | ("6274677").PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 07:41 |
| S17 | 18 | ("4804727" "5981673").PN. OR ("6274677").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 07:42 |
| S18 | 85 | ("20020014405" "20020040106" "20030032739" "20030092940" "20030181572" "20030181615" "20030208014" "20040241518" "20050107488" "20050107489" "20050107490" "20050107532" "20050113528" "20050131096" "20050131097" "20050137351" "3282875" "3635926" "3784399" "3853828" "4000356" "4073752" "4169023" "4214060" "4218542" "4230549" "4242498" "4268650" "4281092" "4330654" "4334082" "4391844" "4414159" "4440917" "4454247" "4470889" "4508603" "4602045" "4686024" "4734474" "4743419" "4755567" "4981932" "5260351" "5264508" "5330626" "5466930" "5527861" "5608022" "5693748" "5795496" "5798417" "5804650" "5852148" "5986012" "6011074" "6090895" "6224994" "6225368" "6242123" "6248469" "6254978" "6255370" "6274677" "6277512" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 07:44 |

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|-----|------|--|---------------------------|----|-----|---------------------|
| | | "6355370" "6365769" "6380337" "6387964" "6423784" "6426397" "6462228" "6498216" "6503378" "6552135" "6624328" "6649703" "6667377" "6670424" "6872781" "RE37307" "RE37656" "RE37701").PN. OR ("7071271").URPN. | | | | |
| S19 | 4 | (S18) AND ((fluoromonomer) OR (fluoropolymer)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 07:59 |
| S20 | 2318 | (fluorovinyl near5 ether) ((fluoromonomer) OR (fluoropolymer)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:04 |
| S21 | 27 | (fluorovinyl near5 ether) AND ((fluoromonomer) OR (fluoropolymer)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:04 |
| S22 | 2 | "JP 11335346" | EPO; JPO; DERWENT | OR | OFF | 2008/11/07 08:09 |
| S23 | 2 | "JP 09161804" | EPO; JPO; DERWENT | OR | OFF | 2008/11/07 08:10 |
| S24 | 0 | "JP 417949" | EPO; JPO; DERWENT | OR | OFF | 2008/11/07 08:11 |
| S25 | 0 | "JP 0417949" | EPO; JPO; DERWENT | OR | OFF | 2008/11/07 08:11 |
| S26 | 0 | (S4) AND (fluoropolymer near5 dispersion) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 08:13 |
| S27 | 21 | (S4) AND (fluoropolymer near5 dispersion) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 08:13 |
| S28 | 12 | ("4036802" "4038231" "4564561" "4780490").PN. OR ("5164426").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:15 |
| S29 | 46 | (fluoropolymer near5 (acid Or salt) near5 group) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:23 |
| S30 | 9 | (fluoropolymer near5 (acid Or salt) near5 group) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:23 |
| S31 | 179 | (fluoropolymer near5 (acid Or salt)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:24 |
| S32 | 1 | ("6150426").PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 08:27 |

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|-----|-----|---|---------------------------|----|-----|---------------------|
| S33 | 22 | ("3282875" "3692569" "4348310" "4358545" "4433082" "4453991" "4540716" "4650551" "4650711" "4661411" "4731263" "4831118" "4940525" "5118869" "5124299" "5912280").PN. OR ("6150426").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:27 |
| S34 | 84 | ("3282875" "3909378" "4025405" "4065366" "4116888" "4123336" "4126588" "4151052" "4176215" "4178218" "4192725" "4209635" "4212713" "4251333" "4270996" "4329434" "4329435" "4330654" "4337137" "4337211" "4340680" "4357218" "4358412" "4358545" "4417969" "4462877" "4470889" "4478695" "4515989" "4554112" "4578512" "4687821").PN. OR ("4940525").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:29 |
| S35 | 0 | (S34) AND (aqueous near5 disperion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:30 |
| S36 | 26 | (S34) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:30 |
| S37 | 0 | (do near5 chemical).as. AND (fluoropolymer) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:33 |
| S38 | 0 | (do near5 chemical).as. AND (fluoropolymer) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 08:33 |
| S39 | 0 | (do near5 chemical).as. AND (fluoropolymer) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/11/07 08:33 |
| S40 | 27 | (dow near5 chemical).as. AND (fluoropolymer) AND (aqueous near5 dispersion) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/11/07 08:33 |
| S41 | 2 | "10/478617" | US-PGPUB; USPAT | OR | ON | 2008/11/07 08:50 |
| S42 | 454 | (shosho).xa. Or (shosho).xp. | US-PGPUB; USPAT | OR | ON | 2008/11/07 09:51 |
| S43 | 8 | (S42) AND (march) | US-PGPUB; USPAT | OR | ON | 2008/11/07 09:51 |
| S44 | 479 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) | US-PGPUB; USPAT | OR | ON | 2008/11/07 09:53 |

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|-----|-----|--|-----------------|----|----|------------------|
| S45 | 348 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 (particle OR particulate) | US-PGPUB; USPAT | OR | ON | 2008/11/07 09:54 |
| S46 | 149 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 (particle OR particulate) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 09:54 |
| S47 | 24 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 (particle OR particulate) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:07 |
| S48 | 25 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:08 |
| S49 | 16 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:11 |
| S50 | 16 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 ("nm" or ".mu.") | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:11 |
| S51 | 16 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near10 ("nm" or ".mu.") | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:11 |
| S52 | 16 | ((emulsion) adj (polymerized OR polymeriz\$5)) near10 (conventional\$4 or typical\$4) near5 (size OR diameter) near10 ("nm" or ".mu.") | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:11 |
| S53 | 30 | ((emulsion) adj (polymerized OR polymeriz\$5)) near10 (conventional\$4 or typical\$4) near10 (size OR diameter) near10 ("nm" or ".mu.") | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:11 |

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|-----|-------|---|-----------------|----|----|------------------|
| S54 | 46511 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion near5 pa(particle or particulate) near5 (size or diameter) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:13 |
| S55 | 3 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion near5 (particle or particulate) near5 (size or diameter) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:13 |
| S56 | 11 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion SAME ((particle or particulate) near5 (size or diameter) near5 "nm") | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:15 |
| S57 | 11 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion SAME ((particle or particulate) near5 (size or diameter) near5 ("nm" OR ".mu.")) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:15 |
| S58 | 4 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion SAME ((particle or particulate) near5 (diameter) near5 ("nm" OR ".mu.")) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:18 |
| S59 | 40 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion AND ((particle or particulate) near5 (diameter) near5 ("nm" OR ".mu.")) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:18 |
| S60 | 40 | (((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion) AND ((particle or particulate) near5 (diameter) near5 ("nm" OR ".mu.")) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:19 |
| S61 | 50 | (((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion) AND ((particle or particulate) near5 (diameter OR size) near5 ("nm" OR ".mu.")) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:20 |

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|-----|-----|---|-----------------|----|----|------------------|
| S62 | 54 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer near5 dispersion) AND ((particle or particulate) near5 (diameter OR size) near5 ("nm" OR ".mu." or micron)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:20 |
| S63 | 147 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer) AND ((particle or particulate) near5 (diameter OR size) near5 ("nm" OR ".mu." or micron)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:21 |
| S64 | 134 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer) AND ((particle or particulate) near5 (diameter OR size) near5 ("nm" OR ".mu." or micron)) AND ((aqueous OR water) near5 (dispersion)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:21 |
| S65 | 104 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 fluoropolymer) AND ((particle or particulate) near5 (diameter OR size) near5 ("nm" OR ".mu." or micron)) AND ((aqueous OR water) near5 (dispersion) near5 (fluoropolymer)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:22 |
| S66 | 0 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (fluoropolymer) near5 (particle or particulate) near5 (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:25 |
| S67 | 8 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (fluoropolymer) near5 (particle or particulate)) AND (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:25 |
| S68 | 21 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (fluoropolymer)) AND ((fluoropolymer) near5 (particle or particulate)) AND (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:26 |
| S69 | 32 | ((emulsion) adj (polymerized OR polymeriz\$5)) near10 (fluoropolymer)) AND ((fluoropolymer) near5 (particle or particulate)) AND (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:27 |

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|-----|------|---|-----------------|----|-----|------------------|
| S70 | 33 | ((emulsion) adj (polymerized OR polymeriz\$5)) near10 (fluoropolymer) AND ((fluoropolymer) near10 (particle or particulate)) AND (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:28 |
| S71 | 11 | ((emulsion) adj (polymerized OR polymeriz\$5)) near10 (fluoropolymer) AND ((fluoropolymer) near10 (particle or particulate) near10 (spherical)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:28 |
| S72 | 258 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (spherical) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:28 |
| S73 | 9 | ((emulsion) adj (polymerized OR polymeriz\$5)) near5 (spherical) near5 (typical\$3 or conventional\$3) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:29 |
| S74 | 1 | ("5747611").URPN. | USPAT | OR | OFF | 2008/11/07 10:55 |
| S75 | 0 | (spherical near5 polymer\$3 near5 (particle Or particulate)) | USPAT | OR | ON | 2008/11/07 10:56 |
| S76 | 2012 | (spherical near5 polymer\$3 near5 (particle Or particulate)) | USPAT | OR | ON | 2008/11/07 10:56 |
| S77 | 163 | (spherical near5 polymer\$3 near5 (particle Or particulate)) SAME (emulsion near5 polymerization) | USPAT | OR | ON | 2008/11/07 10:56 |
| S78 | 30 | (spherical near5 polymer\$3 near5 (particle Or particulate)) near5 (emulsion near5 polymerization) | USPAT | OR | ON | 2008/11/07 10:56 |
| S79 | 47 | (spherical near5 polymer\$3 near5 (particle Or particulate)) near5 (emulsion near5 polymerization) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:57 |
| S80 | 4 | (spherical near5 polymer\$3 near5 (particle Or particulate)) near5 (emulsion near5 polymerization) | USOCR | OR | ON | 2008/11/07 10:57 |
| S81 | 0 | (spherical near5 polymer\$3 near5 (particle Or particulate)) near5 (emulsion near5 polymerization) near5 (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:58 |
| S82 | 11 | (spherical near5 polymer\$3 near5 (particle Or particulate)) SAME (emulsion near5 polymerization) SAME (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 10:58 |

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|------|-------|---|---------------------------|----|-----|---------------------|
| S84 | 14536 | (du near5 pont).as. | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:27 |
| S85 | 2478 | (bekiarian).in. OR (farnham) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:28 |
| S86 | 406 | (bekiarian).in. OR (farnham).in. | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:28 |
| S88 | 59 | (S84) AND (S86) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:28 |
| S89 | 0 | (S84) AND (S86) AND (fluoropolymer) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:28 |
| S90 | 14 | (S84) AND (S86) AND (fluoropolymer) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:28 |
| S91 | 426 | (nafion) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:32 |
| S92 | 426 | (nafion) AND (aqueous near5 dispersion) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:32 |
| S93 | 386 | (nafion) AND (aqueous near5 dispersion) AND (particulate Or particle) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:32 |
| S94 | 1 | ("4433082").PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 11:38 |
| S95 | 58 | (nafion) AND (aqueous near5 dispersion) AND ((particulate Or particle) near5 (spherical)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:40 |
| S96 | 129 | (nafion) AND ((aqueous near5 dispersion) near5 (particulate Or particle)) | US-PGPUB; USPAT | OR | ON | 2008/11/07 11:44 |
| S97 | 2 | ((2559752) or ("2593583")).PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/07 13:06 |
| S98 | 4 | ((2559752) or ("2593583")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 13:07 |
| S99 | 3 | ((3282875) or ("3041317") or ("3718627") or ("3560568")).PN. | USOCR | OR | OFF | 2008/11/07 13:09 |
| S100 | 7 | ((3282875) or ("3041317") or ("3718627") or ("3560568")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/07 13:09 |
| S101 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMIER) SAME (sidechainin) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 13:11 |
| S102 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMIER) SAME (sidechain) | US-PGPUB; USPAT | OR | OFF | 2008/11/07 13:12 |
| S103 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMIER) SAME (side \$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:12 |

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|------|-----|---|-----------------|----|----|------------------|
| S104 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMER) SAME (side \$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:12 |
| S105 | 66 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMER) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:12 |
| S106 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMER) AND (side\$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:12 |
| S107 | 0 | (FLUOROCARBON near5 VINYL near5 ETHER) AND (side\$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:12 |
| S108 | 1 | (FLUoRopolymer near5 VINYL near5 ETHER) AND (side \$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:13 |
| S109 | 0 | (FLUoRopolymer) AND (VINYL near5 ETHER near5 side\$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:13 |
| S110 | 67 | (FLUoRopolymer) AND (VINYL near5 ETHER) and (side\$2chain) | US-PGPUB; USPAT | OR | ON | 2008/11/07 13:14 |
| S111 | 190 | (fluorovinyl near5 ether) and (emulsion near5 polymerization) | US-PGPUB; USPAT | OR | ON | 2008/11/07 14:33 |
| S112 | 0 | (fluorovinyl near5 ether) and (emulsion near5 polymerization) AND (aqueous near5 disperion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 14:34 |
| S113 | 73 | (fluorovinyl near5 ether) and (emulsion near5 polymerization) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 14:34 |
| S114 | 26 | (fluorovinyl near5 ether) and (emulsion near5 polymerization) AND (aqueous near5 dispersion) AND (hydrolysis) | US-PGPUB; USPAT | OR | ON | 2008/11/07 14:34 |
| S115 | 10 | (fluorovinyl near5 ether) AND ((emulsion near5 polymerization) SAME (hydrolysis OR hydrolyz\$4)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 15:29 |
| S116 | 111 | (fluoropolymer) AND ((emulsion near5 polymerization) SAME (hydrolysis OR hydrolyz\$4)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 15:30 |

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|------|------|---|-----------------|----|-----|------------------|
| S117 | 15 | (fluoropolymer near aqueous near dispersion) AND ((emulsion near5 polymerization) SAME (hydrolysis OR hydrolyz\$4)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2008/11/07 15:32 |
| S118 | 202 | (524/805).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S119 | 685 | (524/544).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S120 | 231 | (524/755).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S121 | 255 | (524/167).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S122 | 498 | (521/28).CCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S123 | 438 | (528/494).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S124 | 648 | (528/495).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S125 | 1098 | (528/499).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:55 |
| S126 | 347 | (528/482).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:56 |
| S127 | 1075 | (528/501).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:56 |
| S128 | 168 | (spherical near5 polymer\$3 near5 (particle Or particulate)) SAME (emulsion near5 polymerization) | USPAT | OR | ON | 2009/05/18 16:56 |
| S129 | 18 | (fluoropolymer near aqueous near dispersion) AND ((emulsion near5 polymerization) SAME (hydrolysis OR hydrolyz\$4)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |
| S130 | 334 | ((fluoropolymer OR (fluorinat \$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol OR tetrafluoropropanol) | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:56 |
| S131 | 24 | (emulsion adj polymerized OR polymeriz\$5) near5 (conventional\$4 or typical\$4) near5 (size OR diameter) near5 (particle OR particulate) near5 "nm" | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |

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|------|------|---|-----------------|----|-----|------------------|
| S132 | 11 | (spherical near5 polymer\$3 near5 (particle Or particulate)) SAME (emulsion near5 polymerization) SAME (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |
| S133 | 66 | (FLUOROCARBON near5 VINYL near5 ETHER near5 POLYMER) | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |
| S134 | 134 | (nafion) AND ((aqueous near5 dispersion) near5 (particulate Or particle)) | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |
| S135 | 26 | ((fluoropolymer OR (fluorinat \$3 near5 polymer)) near5 (dispersion) near5 (water Or aqueous)) AND (methanol Or ethanol OR propanol) AND (((fluoropolymer) OR (fluorinat\$3 near5 polymer)) near5 (salt)) | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:56 |
| S136 | 18 | (fluoropolymer near aqueous near dispersion) AND ((emulsion near5 polymerization) SAME (hydrolysis OR hydrolyz\$4)) AND (aqueous near5 dispersion) | US-PGPUB; USPAT | OR | ON | 2009/05/18 16:56 |
| S137 | 621 | ((fluoropolymer) near5 (dispersion) near5 (water Or aqueous)) | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:57 |
| S138 | 2214 | (daikin).as. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:57 |
| S139 | 65 | (Tatemoto near5 Masayoshi).in. OR (Arase near5 Takuya).in. OR (Ino near5 Tadashi).in. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:57 |
| S140 | 49 | (S138) AND (S139) | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:57 |
| S141 | 3 | ("3462401") or ("3726483") or ("3819594").PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/18 16:57 |
| S142 | 0 | "EP 0222945" | EPO | OR | OFF | 2009/05/18 16:59 |
| S143 | 1 | "EP 222945" | EPO | OR | OFF | 2009/05/18 16:59 |
| S144 | 1 | "EP 226668" | EPO | OR | OFF | 2009/05/18 16:59 |
| S145 | 1 | ("20030176534").PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/19 08:03 |
| S146 | 1 | ("20040094067").PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/19 08:08 |
| S147 | 1 | "11/059325" | US-PGPUB; USPAT | OR | OFF | 2009/05/19 08:31 |

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|------|-------|--|--------------------|----|-----|---------------------|
| S148 | 1 | ("20030176534").PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/19 09:07 |
| S149 | 1 | (10/375775).APP. | USPAT; USOCR | OR | OFF | 2009/05/19 09:07 |
| S150 | 47081 | ((fluoropolymer) OR (fluorinat\$4 near5 (polymer Or resin))) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:47 |
| S151 | 3516 | S150 with (particle OR particulate) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:47 |
| S152 | 78 | S150 with (particle OR particulate) with ((low near5 aspect near5 ratio) OR (spheric\$4)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:48 |
| S153 | 78 | (S150 OR (perfluorinat\$ near5 vinyl near5 ether)) with (particle OR particulate) with ((low near5 aspect near5 ratio) OR (spheric\$4)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:53 |
| S154 | 78 | (S150 OR (perfluorinat\$ near5 vinyl near5 ether) OR (perfluorinat\$ near3 (resin or copolymer OR polymer))) with (particle OR particulate) with ((low near5 aspect near5 ratio) OR (spheric\$4)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:57 |
| S155 | 143 | (S150 OR (perfluorinat\$ near5 vinyl near5 ether) OR (perfluorinat\$ near3 (resin or copolymer OR polymer))) with (particle OR particulate) SAME ((low near5 aspect near5 ratio) OR (spheric\$4)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:57 |
| S156 | 65 | S155 NOT S154 | US-PGPUB; USPAT | OR | ON | 2009/10/28 07:58 |
| S157 | 1 | (10/957898).APP. | USPAT; USOCR | OR | OFF | 2009/10/28 08:04 |
| S158 | 1 | ("4326046").PN. | US-PGPUB; USPAT | OR | OFF | 2009/10/28 08:05 |
| S159 | 15393 | (S150 OR (perfluorinat\$ near5 vinyl near5 ether) OR (perfluorinat\$ near3 (resin or copolymer OR polymer)) OR PTFE OR (polymer OR resin OR copolymer)) with (particle OR particulate) SAME ((low near5 aspect near5 ratio) OR (spheric\$4)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:07 |
| S160 | 1420 | S159 AND ((S150) OR (perfluorinat\$ near5 vinyl near5 ether) OR (perfluorinat\$ near3 (resin or copolymer OR polymer))) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:08 |

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| S161 | 9 | S159 AND ((S150) OR (perfluorinat\$ near5 vinyl near5 ether) OR (perfluorinat\$ near3 (resin or copolymer OR polymer))) with (ionic adj group) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:08 |
| S162 | 53 | ("20030130458" "2037953" "2434058" "2965595" "3037953" "3142665" "3489595" "3692569" "4029868" "4112211" "4277586" "4282162" "4326046" "4369266" "4391940" "4439385" "4623487" "4864006" "4940525" "5001278" "5039389" "5229480" "5285002" "5576381" "5608022" "5688884" "5700859" "5763552" "5804650" "5895799" "5955556" "5973091" "6025307" "6103843" "6126849" "6395848" "6429258" "6566452" "6642307" "6693152" "6706193" "6720437" "6767977" "6825250" "6833403" "7041728").PN. OR ("7342066").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/28 08:09 |
| S163 | 13399 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/28 08:15 |
| S164 | 12717 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:15 |
| S165 | 6406 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) AND (disperion OR dispersed) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:15 |
| S166 | 5490 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) AND (disperion OR dispersed) AND (particle OR particulate OR latex) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:15 |
| S167 | 1264 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) AND (disperion OR dispersed) AND (particle OR particulate OR latex) with ((low near3 aspect near3 ratio) OR (spheric\$3)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:16 |

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|------|-------|---|-----------------|----|-----|------------------|
| S168 | 45 | (vinylidene near3 fluoride near5 (resin or copolymer or polymer)) AND (disperion OR dispersed) AND (particle OR particulate OR latex) with ((low near3 aspect near3 ratio) OR (spheric\$3)) AND (ionic near3 group) | US-PGPUB; USPAT | OR | ON | 2009/10/28 08:16 |
| S169 | 2331 | (daikin).as. | US-PGPUB; USPAT | OR | OFF | 2009/10/28 14:05 |
| S170 | 65 | (Tatemoto near5 Masayoshi).in. OR (Arase near5 Takuuya).in. OR (Ino near5 Tadashi).in. | US-PGPUB; USPAT | OR | OFF | 2009/10/28 14:05 |
| S171 | 49 | (S169) AND (S170) | US-PGPUB; USPAT | OR | OFF | 2009/10/28 14:05 |
| S172 | 96 | (S169) AND (fluoropolymer) | US-PGPUB; USPAT | OR | OFF | 2009/10/28 14:05 |
| S173 | 9 | (S169) AND (fluoropolymer) AND (sulfonic near5 acid near5 group) | US-PGPUB; USPAT | OR | OFF | 2009/10/28 14:05 |
| S174 | 12 | (S169) AND (fluoropolymer) AND (particle OR particulate OR latex) AND ((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:07 |
| S175 | 2775 | (fluoropolymer OR NAFION\$) AND (particle OR particulate OR latex) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:09 |
| S176 | 238 | (fluoropolymer OR NAFION\$) SAME (particle OR particulate OR latex) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:09 |
| S177 | 239 | (fluoropolymer OR NAFION\$) SAME (particle OR particulate OR latex Or micro\$2particl\$ OR micro\$2particulat\$) with ((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:26 |
| S178 | 348 | (fluoropolymer OR NAFION\$) AND (polymer) with (particle OR particulate OR latex Or micro\$2particl\$ OR micro\$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:26 |
| S179 | 14677 | S178 NAD S177 | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:26 |
| S180 | 327 | S178 NOT S177 | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:26 |

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|------|-----|--|-----------------|----|----|------------------|
| S181 | 316 | (fluoropolymer) AND (polymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:43 |
| S182 | 0 | S181 NOT (S178 Or S177) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:43 |
| S183 | 214 | (fluoropolymer) SAME (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:43 |
| S184 | 0 | S183 NOT (S178 Or S177) | US-PGPUB; USPAT | OR | ON | 2009/10/28 14:44 |
| S185 | 604 | (fluoropolymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) AND (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:19 |
| S186 | 0 | (fluoropolymer OR fluocopolymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) AND (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) AND ((fluoropolymer OR fluocopolymer) with (pedant near3 group)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:20 |
| S187 | 1 | (fluoropolymer OR fluocopolymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) AND (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) AND ((fluoropolymer OR fluocopolymer) with (pedant near3 group)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:20 |

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|------|-----|---|-----------------|----|----|------------------|
| S188 | 79 | (fluoropolymer OR fluorocopolymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) AND (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) AND ((fluoropolymer OR fluorocopolymer) with (pendant near3 group) OR (ionic near5 group) OR (polar near5 group)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:21 |
| S189 | 6 | (fluoropolymer OR fluorocopolymer) with (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) AND (nano \$2particle OR particle OR particulate OR latex Or micro \$2particl\$ OR micro \$2particulat\$) with((spheric\$) OR (aspect near5 ratio)) AND ((fluoropolymer OR fluorocopolymer) with (pendant near3 group) OR (ionic near5 group) OR (polar near5 group)) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:21 |
| S190 | 370 | S185 NOT (S178 Or S177) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:22 |
| S191 | 352 | S190 AND (dispersion OR dispersed OR dispersing) | US-PGPUB; USPAT | OR | ON | 2009/10/28 15:22 |

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